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PBSplus
Automatic Traying System



Gerüstung: pop-konze.de



Discover
the features
of the
Automatic
Traying
Systems
from
HSW

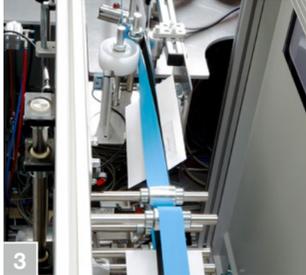
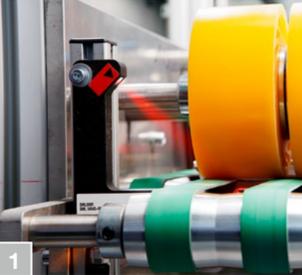
Innovative Mail Logistics

In the Print and Mail industry, companies are continuously looking for ways to automate and further optimise the document production process. For this reason the latest high speed inserters are not only faster, but often have features to reduce stoppages and automatic job set-up, improving the efficiency and increasing productivity. The input for these inserters is often configured with an unwinder or a high capacity document feeder, automating the input of the inserter. But, at the inserter's output, the operator has to manually take the finished envelopes and put them in the postal trays. The HSW Envelope Traying System automates the output of the inserter.

The HSW Envelope Traying System PBSplus

More efficient processing	Elimination of today's intensive manual handling at the output of the inserter allows greater focus from the operator on the productivity. This results in: timely re-loading of envelopes and inserts, optimisation of the cycle speed, elimination of long machine stops, increased net output of the inserters.
Reduction of labour costs	Full colour print production on the roll is changing/simplifying the output process. Multi-channel document processing and selective enclosures are often incorporated into the main document stream. (2-up, 12 inch forms from the roll). Processing the output of the inserter with Automatic Envelope Traying makes a reduction of manpower realistic.
Optimisation of the postage	Due to the liberalisation of the European postal market, different postal organisations started providing postage discounts for pre-sorted mail in labelled trays. (Different per country/postal organisation)
Improved ergonomics	The Autotrayer improves the ergonomics for operators, by eliminating heavy lifting.
High capacity for empty and filled trays	The Autotrayer is equipped with an Autoloader for up to 20 empty trays (optionally up to 40 trays) combined with an extended output conveyor. This way the system can run unattended for a relatively long period of time.
Minimised speed influences	The combination of the integrated high-speed buffer and the short tray-exchange time eliminates diverting mail pieces during a tray-exchange. Influences on the inserter cycle-speed are reduced to a minimum.
Autotraying system with an upgrade path	The modular design of the PBSplus opens up the possibilities for upgrading the PBSplus Efficient and PBSplus Pro in the field.
High up-time	The heavy-duty design of the PBSplus allows for a low maintenance frequency being every 20 million envelopes or once a year. This industrial quality product is designed for high volumes and a long life span.
Simple switch of the envelope orientation	The liberalisation of the postal market allows customers to change their postal service provider or to introduce a second provider, saving postage. The providers often have different delivery requirements, one of the differences being the requirement to deliver the envelopes in the tray with flap down or flap up. The PBSplus is easy adjustable to allow you to switch to the required orientation.

Synchronous data transfer with each mail piece from the inserter to the PBSplus. Interfaces available to all current inserting systems.



4 New secure envelope transport for high cycle speeds. Easy to maintain with good visibility for the operator.



5 Integrated buffer and short tray exchange times, reduce the number of reprints. Impact on the inserter cycle speed is reduced to a minimum.



6 Proven control concept with simplified operation. Additional analysis tools for service engineers.



7 Compact filling station with diverter, the PBSplus High Performance comes with a second filling station in tandem operation for small groups at high speed.



8 Optional module for sliding, pressing or gluing a label onto the tray. A variety of options are available for tray logistics and container handling.



PBSplus – Improves Performance

Since 1994, HSW has been helping high volume production mailers achieve the highest throughput from their envelope inserters. The HSW Autotrayer supports taking full advantage of the high speed inserting systems. HSW have used their industry knowledge and extensive experience with automatic traying to develop the new effective and smart Autotrayer named PBSplus.

PBSplus is a new generation Autotrayer available in 3 different models

PBSplus Efficient
The range starts with the PBSplus Efficient, a cost-effective, entry-level model with a cycle speed up to 18.000 envelopes/hour.

PBSplus Pro
The mid-size model covers many customer requirements. The PBSplus Pro comes with an extended Autoloader (up to 40 trays), a cycle speed up to 26.000 envelopes/hour and an extended output conveyor.

PBSplus High Performance
The flagship model is additionally equipped with a second filling station operating in a so-called «tandem mode». This realises the combination of high speed processing with the ability to run small groups of envelopes with the shortest tray changing times.

The modular concept of the PBSplus enables upgrading at any time.

Features

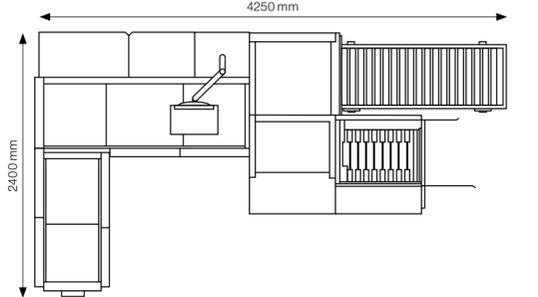
- Cycle speed up to 30.000 envelopes/hour
- Simple switch from flap down to flap up orientation
- Autoloader with capacity up to 20 trays (optionally up to 40 trays)
- Processes all known European postal trays
- Short exchange times between trays
- Heavy-duty design; a robust, industrial quality product
- Low maintenance frequency, only 20 million envelopes or once a year
- Small footprint, 2,4 x 4,25 m
- Can be retrofitted to existing inserters

Options

- Automatic label printing/attaching according to the postal regulations
- Extended capacity for empty trays (20 to 40, PBSplus Efficient only)
- Advanced output capacity for full trays
- Logistical solutions for postal trays including unloading and re-loading the trolleys
- Camera control for output inspection
- Mail piece tracking (On request)

Specifications

Envelope sizes:	C6 and C6/5, C5 up to B5
Performance:	up to 30,000 envelopes/h
Envelope thickness:	up to 8 mm
Input height:	640 – 1020 mm
Noise level:	70 dB(A)
Power:	400 V / 16 A / 50 Hz
Air pressure:	8,0 bar



Process description

Finished mail pieces are securely transferred from the inserter to the Autotrayer.

Envelopes handed over to the Autotrayer without the required information are bypassed to the divert bin.

The envelopes are up righted with either the flap down or flap up and fed through the buffer into the filling station.

A group is complete when the last mail piece of the group arrives at the filling station or when the fillingstation has reached the maximum group size.

The filling station opens the gate and the completed group is lowered into the mail tray.

The full tray is pushed out of the filling station and a new, empty tray moves into position.

During the filling cycle, the next waiting group of mailpieces are accumulated in the high capacity buffer.

Directly after the filling station has closed the gate, the accumulation of the next group starts. This takes place without slowing or stopping.

A label can be printed and attached to the tray (optional).